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COLORADO AND

NEW MEXICO

WATER SUPPLY OUTLOOK

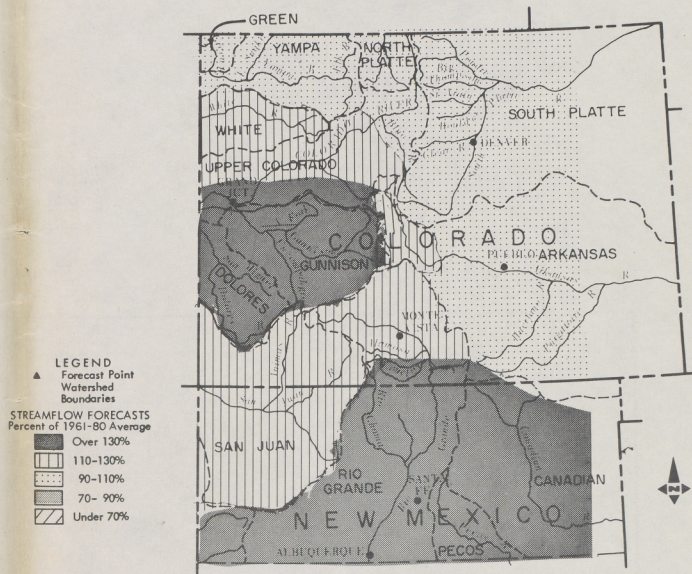
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AS OF
FEBRUARY 1985



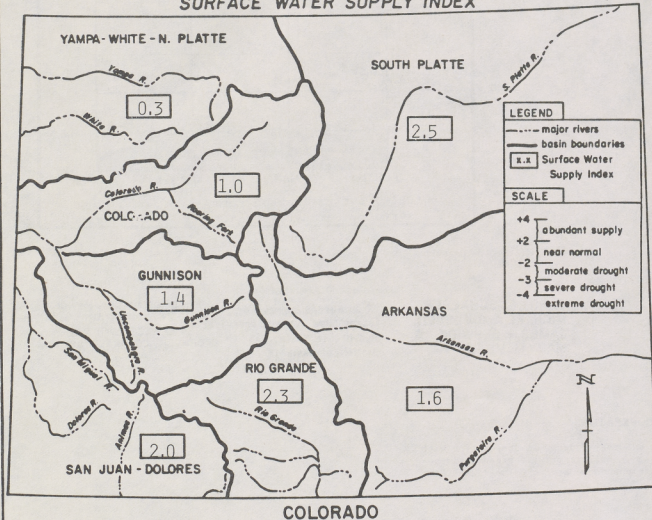
STREAMFLOW FORECAST



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

Date: February 1, 1985

SURFACE WATER SUPPLY INDEX



The Surface Water Supply Index (SWSI) is a weighted value derived for each major basin which generally expresses the potential availability of the forthcoming season's water supply. The components used in computing the index are reservoir storage, snowpack water equivalent, and precipitation. The SWSI number for each basin ranges from a -4.00 (prospective water supplies extremely poor) to a +4.00 (prospective water supplies plentiful). The SWSI number is only a general indicator of surface water supply conditions. Further data analyses may be required in specific situations to more fully understand the impacts of abnormally dry or wet conditions suggested by the SWSI. Development of the SWSI has been a cooperative effort between the Colorado State Engineers' Office and the Soil Conservation Service.

WATER SUPPLY CONDITIONS

FEBRUARY 1, 1985

THE FIRST MAJOR SNOW SURVEYS CONDUCTED THE LAST WEEK OF JANUARY INDICATE THE MOUNTAIN SNOWPACK HAS DECREASED FROM THE JANUARY 1 READINGS. LOW ELEVATION PRECIPITATION THROUGHOUT COLORADO WAS TYPICALLY BELOW AVERAGE FOR THE MONTH WITH A FEW EXCEPTIONS, ALTHOUGH SEASONAL TOTALS ARE NEAR NORMAL. NORTHERN NEW MEXICO RECEIVED AVERAGE TO SLIGHTLY ABOVE AVERAGE PRECIPITATION FOR JANUARY AND SEASONAL TOTALS ARE TYPICALLY 20% TO 70% ABOVE AVERAGE. STREAMFLOW FORECASTS IN COLORADO RANGE FROM SLIGHTLY BELOW AVERAGE ALONG THE FRONT RANGE TO ABOVE AVERAGE IN THE SAN JUANS. SNOWMELT RUNOFF VOLUMES FOR NORTHERN NEW MEXICO ARE EXPECTED TO HAVE ABOVE AVERAGE FLOWS. ALL FORECASTS ARE A JOINT EFFORT OF THE U.S. SOIL CONSERVATION SERVICE AND THE NATIONAL WEATHER SERVICE.



COLORADO

A MEASURE OF 162 SNOW COURSES THROUGHOUT THE STATE

INDICATE STATEWIDE SNOWPACK IS 109% OF AVERAGE AND 74% OF LAST YEAR. THIS IS A DECREASE OF 25% OVER LAST MONTHS READINGS. THREE MAJOR DRAINAGE BASINS HAVE SNOWPACK STATISTICS BELOW 100%. THEY ARE THE SOUTH PLATTE, ARKANSAS, AND THE NORTH PLATTE RIVER BASINS. THE HIGHEST BASIN SNOWPACK CURRENTLY IS IN THE RIO GRANDE AT 28% ABOVE AVERAGE. EXPECTED APRIL-SEPTEMBER RUNOFF VOLUMES RANGE FROM AVERAGE TO SLIGHTLY BELOW ALONG THE FRONT RANGE, TO ABOVE AVERAGE IN THE REST OF THE STATE. RESERVOIR STORAGE STATEWIDE IS 74% ABOVE NORMAL AND 9% ABOVE LAST YEAR. THIS SHOULD PROVIDE ADEQUATE RESERVES IF BELOW NORMAL STREAMFLOW VOLUMES ARE RECEIVED.

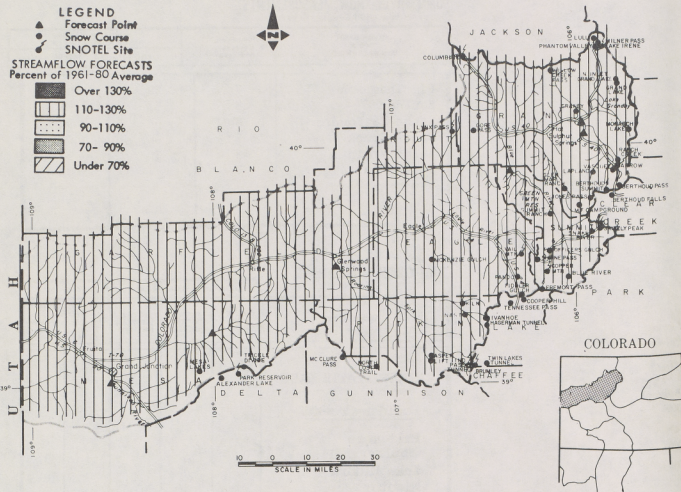


NEW MEXICO

LOW ELEVATION PRECIPITATION WAS GENERALLY ABOVE AVERAGE DURING THE MONTH, ADDING TO THE SEASONAL TOTALS. STREAMFLOW VOLUMES ALONG THE MAIN STEM OF THE RIO GRANDE RANGE FROM 39% ABOVE AVERAGE AT OTOWI, TO 52% ABOVE AVERAGE AT SAN MARCIAL. EXCELLENT STREAMFLOW VOLUMES ARE EXPECTED DURING THE SPRING AND SUMMER MONTHS. A MEASURE OF 7 MAJOR RESERVOIRS FROM AROUND THE STATE SHOW STORAGE FIGURES NEARLY 3 TIMES THE AVERAGE, AND 24% ABOVE LAST YEAR.

"The Conservation of Water begins with the Snow Survey"

COLORADO RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

BELOW AVERAGE PRECIPITATION HAS LOWERED THE BASIN SNOWPACK TO 8% ABOVE THE FEBRUARY FIRST AVERAGE. THE CURRENT SNOWPACK IS ONLY 68% OF LAST YEAR'S READINGS. WITH THE EXCEPTION OF THE PLATEAU CREEK DRAINAGE, WHICH IS 127% OF AVERAGE, ALL OF THE OTHER SUB-BASINS ARE NEAR AVERAGE. STREAMFLOW VOLUMES ARE EXPECTED TO BE AVERAGE TO SLIGHTLY ABOVE AVERAGE THROUGHOUT THE BASIN. RANGING FROM A HIGH OF 122% OF AVERAGE FLOW ON THE COLORADO RIVER NEAR CAMEO, TO THE LOW OF 95% OF AVERAGE ON THE EAST FORK OF TROUBLESOME CREEK. SOIL MOISTURE HAS BEEN RATED AS GOOD TO FAIR. RESERVOIR STORAGE FIGURES ARE NEAR LAST YEAR'S LEVELS AT 34% OF AVERAGE.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Blue River inflow to Dillon Reservoir	180	105	171.1
Blue River inflow to Green Mountain Reservoir (1)	316	105	300.8
Colorado River near Cameo (2)	3000	122	2462.0
Colorado River near Dotsero (3)	1704	114	1494.2
Colorado River inflow to Granby Reservoir (4)	240	104	230.3
Eagle River below Gypsum	400	127	308.4
East Fork Troublesome Creek near Troublesome	21	95	19.3
Roaring Fork at Glenwood Springs (5)	880	120	733.5
Williams Fork near Parshall (6)	75	120	62.5
Willow Creek inflow to Willow Creek Reservoir	52	100	51.7

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow plus the changes as indicated in (1), (1) and (6) plus Moffat Tunnel and change in Homestead, Williams Fork, Green Mt. and Willow Creek Reservoirs. (3) Observed flow entered for change in storage in Lake Inland as furnished in U.S.R.R. and diversions by Adams Tunnel and Grand River Ditch. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Hardi Reservoir. (5) Observed flow plus diversions through Tunnel. (6) Observed flow plus diversions through Tunnel.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and of RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	191-80 Average
Dillon	245	229	241	197
Granby	466	421	403	254
Green Mountain	139	87	89	77
Homestead	43	20	42	22
Ruedi	101	79	76	72
Vega	32	19	19	10
Williams Fork	97	52	49	42
Willow Creek	9	6	8	6

WATER SUPPLY OUTLOOK

Stream or Area	Flow Period	
	Spring Season	Late Season
Brush Creek	Average	Average
Gypsum Creek	Average	Average

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply

SUMMARY OF SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

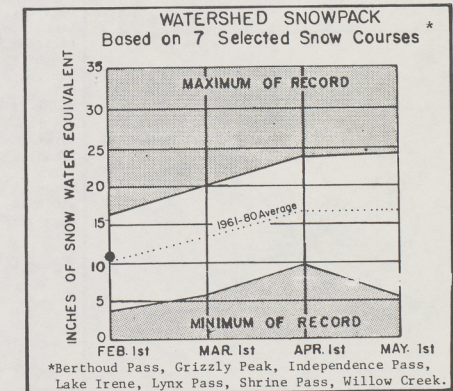
RIVER BASIN and SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
Blue River	7	63	101
Colorado	20	65	104
Plateau	3	85	127
Roaring Fork	6	78	118
Williams Fork	4	61	108
Willow Creek	2	62	90

SNOW COURSE MEASUREMENTS

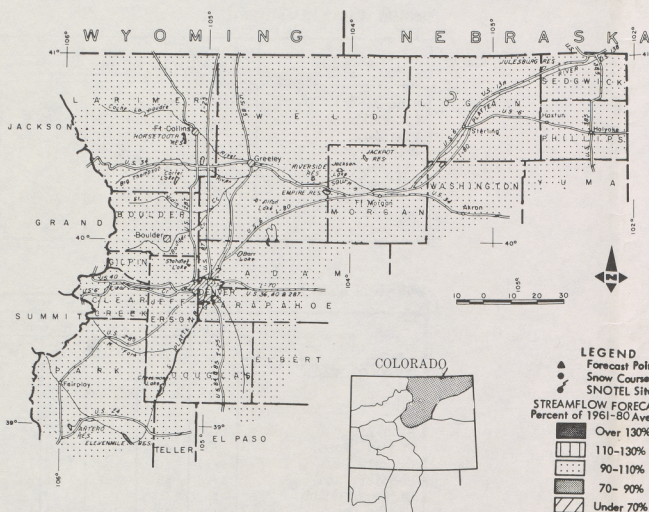
SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES) LAST YEAR	AVG. 61-80
COLORADO BASIN					
Blue River					
Blue River	1/24	25	5.4	9.0	5.5
Fremont Pass	1/29	44	9.6	17.7	10.3
Grizzly Peak	1/31	46	11.9	17.5	11.1
Hoosier Pass	1/24	38	9.9	12.5	8.1
Officers Gulch	DISCONTINUED				
Shrine Pass	1/28	45	10.6	14.2	10.8
Snake River	1/31	28	5.7	9.8	5.5
Summit Ranch	1/25	18	3.7	9.3	4.8
Colorado River					
Arrow	1/30	39	8.8	14.3	8.5
Berthoud Pass	1/31	48	11.8	19.0	9.9
Berthoud Summit	1/29	53	13.2	20.8	11.8
Cooper Hill	DISCONTINUED				
Copper Mountain	1/31	44	9.8	16.0	8.4
Glenmar Ranch	1/28	29	5.6	10.4	5.6
Gore Pass	1/24	34	6.8	9.1	7.0
Grand Lake	1/27	29	6.0	10.3	5.4
Lake Irene	2/01	62	14.8	20.2	13.8
Lapland	1/30	31	7.1	11.0	6.7
Lulu	DISCONTINUED				
Lynx Pass	1/24	40	8.0	9.6	8.0
McKenzie Gulch	1/28	23	4.9	-	4.2
Middle Fork	1/25	33	7.2	10.9	6.3
Milner	1/27	36	8.2	14.5	9.4
North Inlet	1/28	22	4.2	8.4	5.8
Pando	1/28	24	5.2	6.4	6.2
Phantom Valley	2/01	31	7.5	13.1	6.9
Ranch Creek	1/30	31	6.5	11.5	6.1
Tennessee Pass	1/29	33	6.1	10.3	6.6
Vail Mountain	1/28	59	14.5	24.0	14.4
Vasquez	1/29	37	9.0	13.6	8.0
Plateau Creek					
Mesa Lakes	1/29	59	13.5	18.9	10.5
Park Reservoir	1/30	73	19.1	21.6	15.2
Trickle Divide	1/30	69	20.7	22.4	16.2
Roaring Fork					
Aspen	DISCONTINUED				
Hagerman Tunnel	DELAYED				
Independence Pass	1/28	44	10.9	15.0	10.1
Ivanhoe	N/S				
Kiln	1/30	38	8.7	11.6	7.6
Lift	1/25	48	15.4	19.6	10.7
McClure Pass	1/29	41	11.3	14.0	10.6
Nast	1/30	30	6.2	7.2	4.7
North Lost Trail	1/29	44	11.5	14.7	10.6
Williams Fork River					
Glenmar Ranch	1/28	29	5.6	10.4	5.6
Jones Pass	1/29	46	10.9	16.6	9.3
Middle Fork	1/25	33	7.2	10.9	6.3
Ute Pass	1/30	37	6.7	12.1	7.0
Willow Creek					
Granby	1/29	22	3.8	8.2	5.2
Willow Creek Pass	1/31	36	8.2	11.1	8.1

NS-No survey.

(B)-On adjacent drainage.



SOUTH PLATTE RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

BASIN SNOWPACK IN THE SOUTH PLATTE DRAINAGE REMAINS THE LOWEST IN COLORADO THIS MONTH AT 90% OF THE LONG TERM AVERAGE, AND ONLY 59% OF LAST YEAR'S SNOWPACK. LOWEST SNOWPACK FIGURES OCCURRED IN THE ST. VRAIN, BOULDER CREEK, AND BIG THOMPSON RIVER DRAINAGES. EXPECTED STREAMFLOW VOLUMES ARE FOR AVERAGE TO SLIGHTLY BELOW AVERAGE FLOWS THIS IRRIGATION SEASON. WITH CURRENT RESERVOIR STORAGE VOLUMES AT 115% OF AVERAGE, AND SOIL MOISTURE RATED AS FAIR, NEAR NORMAL WATER SUPPLIES CAN BE EXPECTED THIS YEAR WITH AVERAGE PRECIPITATION DURING THE REMAINDER OF THE WINTER MONTHS.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Bear Creek at Morrison	29	100	28.7
Big Thompson River at Drake (1)	100	98	114.0
Boulder Creek at Orodell	47	101	46.7
Cache La Poudre River at Canyon Mouth (2)	255	95	268.0
Clear Creek at Golden (3)	130	102	127.0
St. Vrain Creek at Lyons	68	86	78.8
South Boulder Creek near Eldorado Springs	43	101	42.1
South Platte River at South Platte	188	95	197.0

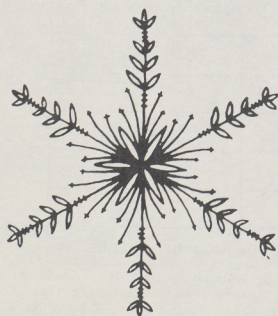
(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion by Berthoud Pass, plus City of Golden and Church Rock diversions.

WATER SUPPLY OUTLOOK

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Coal Creek	Average	Fair
North Fork of South Platte	Average	Fair
North Fork of Cache La Poudre	Average	Fair
Ralston Creek	Average	Fair
Rock Creek	Average	Fair
South Platte from Greeley to Fort Morgan	Average	Fair
South Platte from Fort Morgan to Sterling	Average	Fair
South Platte below Sterling	Average	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity			
	This Year	Last Year	1961-80 Average	
Antero	16	16	16	14
Barr Lake	32	26	22	22
Black Hollow	8	4	4	4
Boyd Lake	48	39	40	36
Cache La Poudre	10	8	9	7
Carter Lake	114	93	84	80
Chambers Lake	9	4	4	3
Cheesman	79	77	75	50
Cobb Lake	34	19	20	14
Eleven Mile	98	98	98	88
Empire	38	22	14	22
Fossil Creek	12	5	0	7
Gross	43	40	31	27
Halligan	6	5	6	4
Horsetooth	144	97	117	83
Jackson	35	26	28	29
Julesburg	28	18	21	20
Lake Loveland	14	10	10	9
Lone Tree	9	8	8	6
Mariano	6	5	4	5
Marshall	10	8	8	4
Marston	18	11	15	15
Milton	24	15	15	13
Point of Rocks	70	66	58	55
Prewitt	33	19	18	17
Riverside	58	30	15	42
Standley	42	38	40	21
Terry	8	5	6	5
Union	13	12	12	10
Windsor	19	9	13	10
Horse Creek	16	12	13	11



SUMMARY OF SNOW MEASUREMENTS

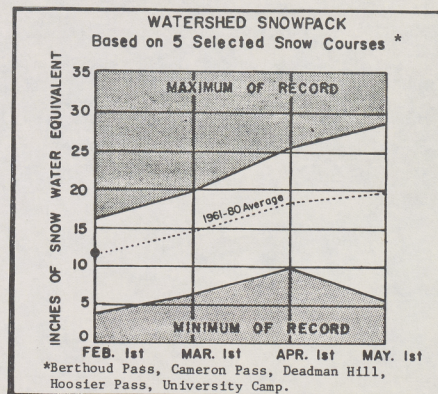
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
Big Thompson	7	58	87
Boulder	5	51	85
Cache La Poudre	8	64	94
Clear Creek	5	60	91
Saint Vrain	3	39	58
South Platte	7	71	104

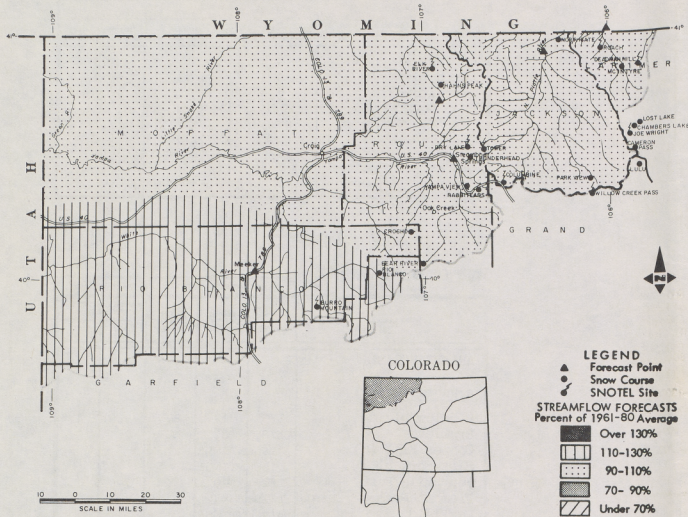
SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	CURRENT INFORMATION		PAST RECORD	
		SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 61-80
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	1/29	17	3.2	6.8	5.0
Boulder Falls	1/29	27	5.7	12.0	7.7
Lake Eldora	1/28	29	6.2	12.8	6.3
Niwot	1/28	28	6.3	13.2	5.3
University Camp	1/29	37	9.0	15.1	10.8
<u>Big Thompson River</u>					
Bear Lake	2/01	36	7.2	14.1	10.3
Deer Ridge	1/30	8	1.6	8.5	3.3
Hidden Valley	2/01	26	5.0	9.4	6.6
Lake Irene (B)	2/01	62	14.8	20.2	13.8
Longs Peak	1/31	28	6.0	11.0	6.7
Two Mile	1/31	34	7.3	11.6	9.1
Willow Park	1/31	48	11.5	18.0	11.9
<u>Cache La Poudre</u>					
Bennett Creek	1/29	22	3.6	8.2	4.9
Big South	1/30	13	2.7	4.9	1.5
Cameron Pass	1/30	57	17.4	23.8	17.7
Chambers Lake	1/30	18	4.3	7.7	6.4
Deadman Hill	2/01	39	9.7	12.6	10.5
Hourglass Lake	1/29	24	4.6	7.8	4.6
Joe Wright	1/30	58	15.9	22.2	15.8
Lost Lake	DISCONTINUED				
Pine Creek	1/30	6	0.8	4.5	1.6
Red Feather	DISCONTINUED				
<u>Clear Creek</u>					
Baltimore (B)	1/29	17	3.2	6.8	5.0
Berthoud Falls	1/29	35	7.5	13.6	9.0
Empire	1/29	21	4.1	7.4	4.6
Grizzly Peak (B)	1/31	46	11.9	17.5	11.1
Loveland Pass	1/31	37	9.3	14.8	9.8
<u>St. Vrain River</u>					
Copeland Lake	2/01	11	2.2	5.2	3.3
Ward	1/31	14	2.6	8.0	3.8
Wild Basin	1/30	21	4.0	9.4	8.1
<u>South Platte River</u>					
Bison Reservoir	1/28	16	3.3	3.5	-
Como	1/30	18	4.0	6.6	4.4
Geneva Park	1/28	12	1.5	4.1	2.8
Horseshoe Mountain	1/25	35	8.0	9.8	6.7
Hoosier Pass	1/24	38	9.9	12.5	8.1
Jefferson Creek	1/30	27	6.0	9.6	6.1
Mosquito	1/24	31	6.9	9.2	6.6
Sundance	1/28	28	5.4	10.3	-
Trout Creek Pass	1/25	15	3.5	4.6	3.4

NS-No survey.
(B)-On adjacent drainage.



YAMPA, WHITE AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO



YOUR WATER SUPPLY

SNOWPACK THIS MONTH IS NEAR NORMAL AT 107% OF AVERAGE, AND 77% OF LAST FEBRUARY'S READINGS. THE LOWEST SNOWPACK READINGS FOR THIS WATERSHED WERE TAKEN, IN THE ELK RIVER DRAINAGE ALONG THE WEST SIDE OF THE PARK RANGE AT 85% OF AVERAGE. THE HIGHEST SNOWPACK WAS IN THE WHITE RIVER DRAINAGE AT 21% ABOVE AVERAGE. SOIL MOISTURE IN IRRIGATED AREAS IS RATED AS GOOD. STREAMFLOW FORECASTS CALL FOR AVERAGE TO SLIGHTLY BELOW AVERAGE RUNOFF FOR THIS SPRING AND SUMMER. FORECASTS RANGE FROM A HIGH OF 115% OF AVERAGE ON THE WHITE RIVER NEAR MEEKER, TO A LOW OF 95% OF AVERAGE ON THE NORTH PLATTE AND LARAMIE RIVER.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Elk River at Clark	201	97	207.2
Laramie River near Woods	125	95	132.0
Little Snake River at Lily	357	100	356.8
North Platte River at Northgate	250	95	262.0
White River near Meeker	350	115	304.2
Yampa River near Maybell	960	100	956.0
Yampa River at Steamboat Springs	315	111	284.2

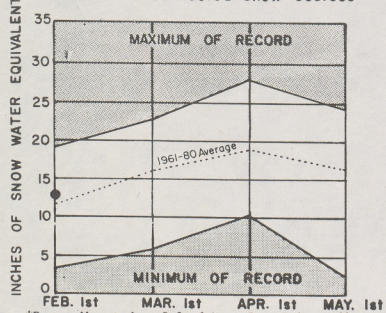
WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Less Season
Canadian River	Average	Fair
Hunt Creek	Average	Fair
Illinois River	Average	Fair
Michigan River	Average	Fair
Oak Creek	Average	Fair
Trout Creek	Average	Fair

WATERSHED SNOWPACK

Based on 5 Selected Snow Courses *



*Burro Mountain, Columbine, Dry Lake, Elk River, Lynx Pass.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN AND SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
Elk	2	75	85
Laramie	2	70	89
North Platte	5	75	99
White	2	85	121
Yampa	6	75	109

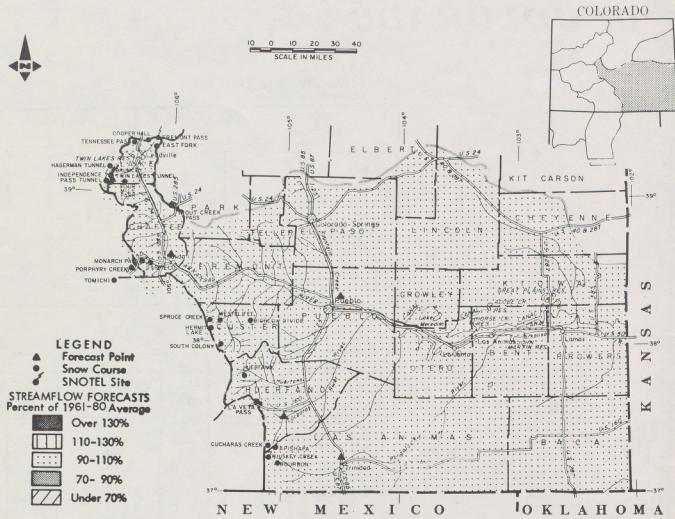
SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 61-80
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	2/01	39	9.7E	12.6	10.1
McIntyre	N/S				
Roach	1/28	40	10.4	16.0	12.0
<u>North Platte River</u>					
Cameron Pass	1/30	57	17.4	23.8	17.7
Columbine Lodge	1/25	54	15.7	20.3	15.3
Northgate	1/31	20	3.4	5.4	4.1
Park View	1/31	28	5.7	7.6	6.1
Willow Cr. Pass (B)	1/31	36	8.8	11.1	8.1
YAMPA BASIN					
<u>Elk River</u>					
Elk River	1/28	43	10.6	13.6	12.0
Hahn's Peak	1/28	38	8.8	12.3	10.7
<u>White River</u>					
Burro Mountain	1/30	51	13.3	15.8	11.2
Rio Blanco	1/31	42	11.2	13.5	9.5
<u>Yampa River</u>					
Bear River	DISCONTINUED				
Columbine (B)	1/25	54	15.7	20.3	15.3
Crosno	N/S				
Dry Lake	2/05	51	15.1	20.9	12.5
Lynx Pass (B)	1/24	40	8.0	9.6	8.0
Rabbit Ears	1/25	59	18.1	24.0	16.3
Tower	2/05	102	36.9	47.1	32.3
Yampa View	1/25	39	10.0	16.2	10.1

NS-No survey.
(B)-On adjacent drainage.



ARKANSAS RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

SNOWPACK STATISTICS HAVE DECREASED DURING JANUARY TO 98% OF AVERAGE AND 61% OF LAST YEAR. RESERVOIR STORAGE HAS BEEN CONSISTENTLY WELL ABOVE AVERAGE AND IS CURRENTLY MORE THAN FOUR TIMES THE NORMAL STORAGE. CURRENT SOIL MOISTURE CONDITIONS ARE CONSIDERED TO BE FAIR TO GOOD. ASSUMING NORMAL PRECIPITATION PATTERNS OCCUR IN THE REMAINDER OF THE WINTER, AVERAGE TO SLIGHTLY BELOW AVERAGE STREAMFLOW VOLUMES ARE EXPECTED THIS SUMMER. THE HIGHEST FORECASTED STREAMFLOW IS EXPECTED ON THE ARKANSAS RIVER ABOVE PUEBLO AT 13% ABOVE AVERAGE.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Arkansas River above Pueblo (1)	315	113	278.0
Arkansas River at Salida (2)	324	108	300.0
Cucharas River near La Veta	10.4	95	11.0
Grape Creek near Westcliffe	15	94	16.0
Huerfano River near Redwing	13.5	90	15.0
Purgatoire River at Trinidad (3)	37	103	36.0
Chalk Creek	108	100	21.5

(1) Plus change in storage in Pueblo Reservoir. (2) Observed flow plus change in Clear Creek, Twin Lakes and Targuine Reservoirs minus diversions through Bush Junction, Huestead, Divide, Twin Lakes and Huestead Tunnels and Ewing, Fremont Pass, Huerfano and Culebra ditches. (3) Change in storage in Trinidad Reservoir.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	1961-80 Average
Adobe	62	61	45	9
Clear Creek	11	3	5	7
Great Plains	150	67	28	32
Holbrook Lake	7	5	1	4
Horse Creek	27	25	8	5
John Martin	621	262	100	42
Lake Henry	8	5	4	4
Meredith	42	40	33	7
Pueblo	354	294	254	53
Trinidad	158	29	39	23
Turquoise	127	122	96	34
Twin Lakes	86	134	84	25

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" with respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa River	Fair	Poor
Fontaine Creek	Average	Fair
Hardscrabble Creek	Fair	Poor
Monument Creek	Average	Fair

SUMMARY of SNOW MEASUREMENTS

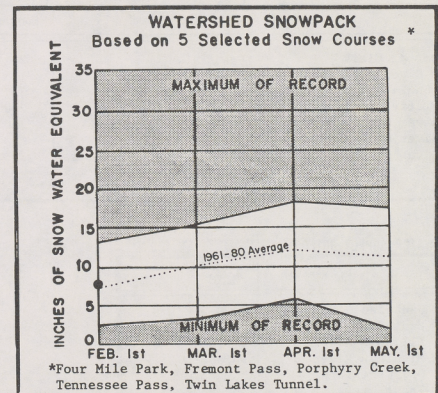
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
Arkansas	9	60	100
Cucharas	2	60	85
Purgatoire	1	80	102

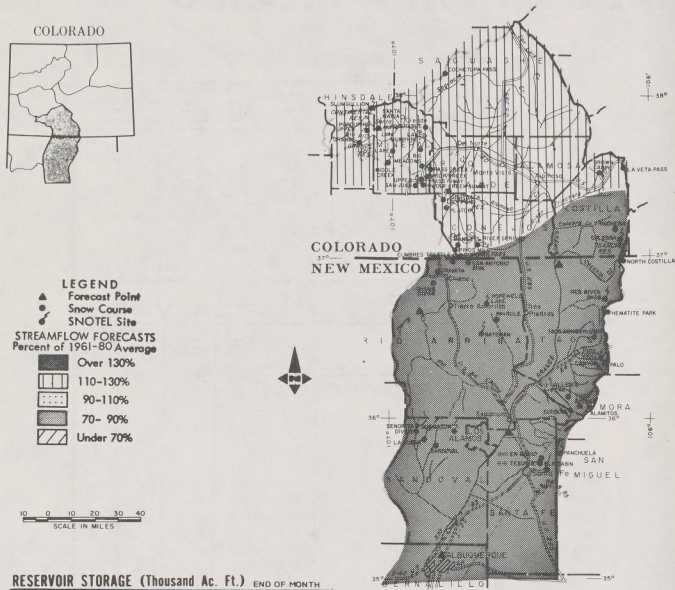
SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD	
				LAST YEAR	AVG. 61-80
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	1/31	17	3.7	5.5	4.5
Brumley	1/29	32	6.8	12.4	6.4
Cooper Hill (B)	DISCONTINUED				
East Fork	DISCONTINUED				
Four Mile Park	1/29	20	3.4	7.7	4.2
Fremont Pass	1/29	44	9.6	17.7	10.3
Garfield	DISCONTINUED				
Hermit Lake	1/30	27	6.5	9.3	6.2
Monarch Pass	1/30	52	13.0	18.7	11.1
South Colony	1/30	63	17.8	19.6	-
Spruce Creek	1/31	30	6.6	8.2	-
Tennessee Pass	1/29	33	6.1	10.3	6.6
Twin Lakes Tunnel	1/28	32	7.7	11.9	6.4
Westcliffe	1/30	21	4.0	8.1	5.3
<u>Cucharas River</u>					
Apishapa	1/28	19	4.0	6.5	5.2
Cucharas Creek	1/28	24	4.8	8.2	5.2
Huerfano	1/26	17	5.4	7.3	-
La Veta Pass (B)	DELAYED				
<u>Purgatoire River</u>					
Bourbon	1/31	26	4.8	6.0	4.7
Whiskey Creek	1/31	34	6.1	9.1	-

JS-No survey.
(B)-In adjacent drainage.



RIO GRANDE WATERSHED IN COLORADO AND NEW MEXICO



RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	1961-80 Average
COLORADO				
Continental	27	8	3	4
Platoro	75	34	14	9
Rio Grande	51	31	19	15
Sanchez	103	38	42	16
Santa Maria	45	14	8	6
Terrace	18	9	7	6
NEW MEXICO				
Avalon	6	4	3	4
Caballo	344	70	46	46
Conchas	273	208	146	139
El Vado	195	125	130	34
Elephant Butte	2195	1622	1323	416
McMillan	34	33	25	16
Santa Rosa	447	23	12	-
Summer	111	37	23	64

WATER SUPPLY OUTLOOK

STREAM or AREA	Flow Period	
	Spring Season	Late Season
COLORADO		
Sangre de Cristo Cr.	Average	Fair
Trinchera Creek	Average	Fair
NEW MEXICO		
Embudo Creek	Excellent	Average
Mora River	Excellent	Excellent
Nambe Creek	Excellent	Average
Rio Ojo Caliente	Average	Average
Santa Fe Creek	Excellent	Excellent

YOUR WATER SUPPLY

HIGH ELEVATION PRECIPITATION HAS MAINTAINED AN ABOVE AVERAGE SNOWPACK THROUGHOUT THE WATERSHED. AT 128% OF AVERAGE, THE RIO GRANDE BASIN IS CURRENTLY THE HIGHEST IN COLORADO, WHILE THAT PORTION OF THE BASIN IN NEW MEXICO IS 52% ABOVE AVERAGE. THE HIGHEST SNOWPACK FIGURES WERE RECORDED IN THE PECOS DRAINAGE AT 190% OF AVERAGE. RESERVOIR STORAGE IN COLORADO IS 239% OF AVERAGE, WHILE NEW MEXICO IS REPORTING NEARLY THREE TIMES NORMAL STORAGE. THIS YEAR'S RUNOFF SEASON SHOULD SEE SLIGHTLY ABOVE AVERAGE STREAMFLOWS IN COLORADO AND MUCH ABOVE AVERAGE FLOWS IN THE RIO GRANDE BASIN OF NEW MEXICO. SOIL MOISTURE IN IRRIGATED AREAS IS CONSIDERED TO BE IN GOOD CONDITION THROUGHOUT COLORADO AND NEW MEXICO.

STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	Forecast	% of Average	1961-80 Average
COLORADO (April-September)			
Alamosa Creek above Terrace Reservoir	86	130	66.0
Conejos River near Mogote (1)	255	131	195.0
Culebra Creek at San Luis (2)	26	144	18.0
La Jara Creek near Capulin	10	128	7.8
Los Pinos River near Ortiz	87	126	69.0
Rio Grande at Thirty Mile Bridge (3)	150	119	126.0
Rio Grande near Del Norte (3)	593	120	494.0
Rio Grande at Wagon Wheel Gap (3)	372	120	310.0
Saguache Creek near Saguache	33	107	30.0
San Antonio River at Ortiz	21	135	15.2
South Fork of Rio Grande at South Fork	152	120	127.0
Trinchera Water Supply (April-July) (6)	33	125	26.3
NEW MEXICO (March-July)			
Costilla Creek at Costilla (4)	28	150	19.0
Gallinas Creek near Montezuma	10	143	7.0
Jemez River near Jemez	56	140	40.0
Pecos River at Pecos	58	130	45.0
Red River at Mouth	37	122	30.0
Rio Chama at El Vado	291	140	208.0
Rio Grande at Otowi (5)	835	139	600.0
Rio Grande at San Marcial (5)	640	152	420.0
Rio Hondo near Valdez	20	134	15.0
Rio Pueblo de Taos below Los Cordovas	36	133	27.0
Santa Cruz River at Cudiyo	20	140	14.0
Santa Fe near Santa Fe	5.2	180	2.9

(1) Observed flow plus change in storage in Pecos Reservoir. (2) Observed flow plus change in storage in Saguache Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs. (4) Observed flow plus change in storage in El Vado and Abiquiu Reservoirs. (5) Sum of Trinchera Creek near Fort Garland, Rio Grande near Fort Garland, and Indian Creek Reservoirs. (6) Sum of Trinchera Creek near Fort Garland, Rio Grande near Fort Garland, and Indian Creek Reservoirs.

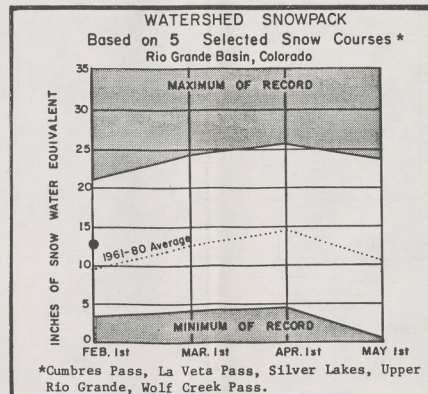
SUMMARY of SNOW MEASUREMENTS
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
<u>COLORADO</u>			
Alamosa	1	75	132
Conejos	5	87	139
Culebra	3	82	124
Rio Grande, CO	13	102	122

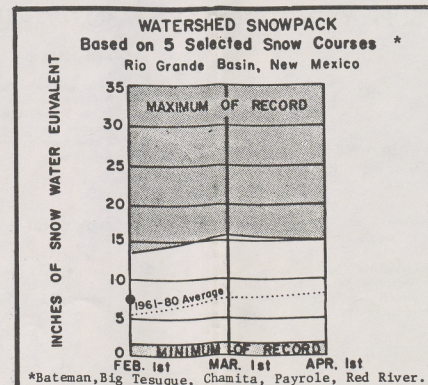
SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	AVG. 61-80
RIO GRANDE BASIN-COLO.					
Alamosa River					
Lily Pond	N/S				
Silver Lakes	1/31	24	5.4	7.2	4.1
Conejos River					
Cumbres Pass	1/28	67	22.6	25.7	14.1
Cumbres Trestle	1/28	67	20.3	27.4	16.4
La Manga	1/28	58	16.7	18.9	13.1
Pinos Mill	1/31	78	21.8	24.1	14.3
Platoro	1/30	55	14.8	14.3	11.5
River Springs	DELAYED				
Culebra River					
Brown Cabin	1/29	28	4.4	9.6	4.7
Culebra	1/30	40	8.2	8.2	6.1
La Veta Pass (B)	DELAYED				
Trinchera (B)	1/28	34	7.9	7.1	5.7
Rio Grande					
Big Meadows	1/27	43	12.1	11.6	10.2
Cochetopa Pass	1/30	20	3.8	7.0	3.9
Grayback	1/29	45	13.1	13.2	9.6
Hibway	1/31	87	25.0	25.5	16.3
Lake Humphrey	1/29	26	5.3	4.2	5.2
Love Lake	1/28	34	8.0	6.8	6.0
Middle Creek	1/28	59	16.9	13.6	-
Pass Creek	1/31	45	10.9	10.2	9.2
Pool Table	1/30	24	4.5	3.1	4.7
Porcupine	1/26	29	6.3	7.8	7.7
Santa Maria	1/26	16	2.7	5.5	3.8
Upper Rio Grande	1/26	29	6.0	4.8	6.3
Wolf Creek Pass	1/30	86	24.3	23.8	18.5
Wolf Cr. Summit (B)	1/30	88	25.1	20.8	19.2

NS-No survey.
(B)-On adjacent drainage.



*Cumbres Pass, La Veta Pass, Silver Lakes, Upper Rio Grande, Wolf Creek Pass.



*Bateman, Big Tesuque, Chamita, Payrole, Red River.

SUMMARY of SNOW MEASUREMENTS
(COMPARISON WITH PREVIOUS YEARS)

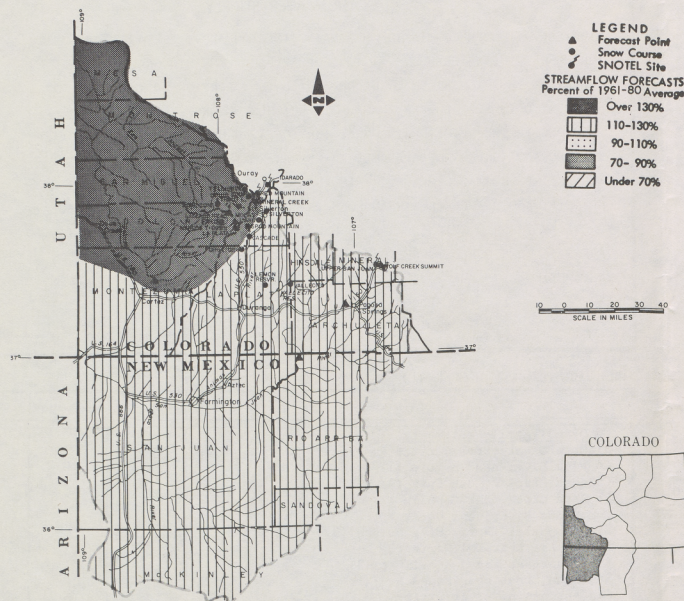
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	1961-80 Average
<u>NEW MEXICO</u>			
Pecos	1	120	190
Red River	2	96	128
Rio Chama	3	63	111
Rio Grande, NM	16	92	162
Rio Hondo	-	-	-

SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	AVG. 61-80
RIO GRANDE BASIN - NM					
Pecos River					
Bitter Creek	1/19	17	4.6	-	-
Panchuela	2/04	26	5.9	4.9	3.1
Wesner Springs	DELAYED				15.5
Red River					
Hematite Park (B)	1/29	20	4.6	4.4	3.2
Red River	1/29	24	5.1	5.7	4.4
Rio Chama					
Bateman	1/29	38	8.7	14.0	7.6
Chama Divide	1/28	12	2.8	4.4	3.1
Chamita	1/29	32	7.2	11.4	6.2
Rio Grande					
Alamitos	1/31	45	10.0	7.0	3.8
Bernal Trail (B)	DISCONTINUED				
Big Tesuque	1/30	34	7.5	-	4.1
Cordova	N/S				
Elk Cabin	1/30	21	5.0	5.1	2.8
Gallegos Peak	1/31	46	9.6	12.5	5.7
Hopewell	1/30	59	14.7	18.3	10.7
La Cueva	1/30	31	7.3	7.1	4.6
North Costilla	1/28	21	4.5	3.7	3.5
Ojo Redondo	1/30	24	5.4	4.1	-
Palo	1/28	34	7.1	8.7	5.0
Payrole	1/30	35	8.7	10.7	5.9
Post Office Flat	1/30	19	3.4	3.2	-
Quemazon	1/31	42	10.5	6.1	6.1
Rice Park	1/30	32	4.5	4.8	-
Rio En Medio	1/30	45	11.6	8.3	6.2
San Antonio Sink	1/28	24	5.8	10.8	4.9
Sandoval	1/31	31	8.0	4.2	3.7
Senorita Divide	1/31	41	7.7	10.6	5.8
Taos Canyon	1/29	23	4.9	11.6	3.3
Tres Ritos	1/31	30	6.6	8.2	3.7
Rio Hondo	DISCONTINUED				
Taos Powderhorn	DISCONTINUED				

NS-No survey.
(B)-On adjacent drainage.

SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

SNOWPACK STATISTICS IN THE BASIN IS THE SECOND HIGHEST IN THE STATE AT 22% ABOVE AVERAGE AND 93% OF LAST YEAR. THE UPPER PORTION OF THE SAN JUAN WATERSHED IS 128% OF AVERAGE AND 98% OF LAST YEAR. UPPER SAN JUAN SNOTEL SITE NEAR WOLF CREEK SUMMIT MEASURED 95 INCH DEPTH, AND CONTAINED 27.3 INCHES OF WATER FOR 133% OF AVERAGE. STREAMFLOW VOLUMES ARE EXPECTED TO BE ABOVE AVERAGE IF NORMAL PRECIPITATION AMOUNTS ARE RECEIVED THE REST OF THE WINTER. RESERVOIR STORAGE IS 178% OF AVERAGE AND 98% OF LAST YEAR. SOIL MOISTURE IS REPORTED GOOD IN ALL IRRIGATED AREAS.

SUMMARY OF SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN AND SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		LAST YEAR	1961-80 Average
Animas	6	86	119
Dolores	6	78	117
San Juan	5	98	128

SNOW COURSE MEASUREMENTS

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	AVG. 61-80
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	1/30	40	11.0	13.4	9.1
Lemon	1/31	36	10.1	8.8	7.3
Mineral Creek	1/30	45	11.4	14.5	10.4
Molas Lake	1/30	44	11.1	14.5	9.4
Purgatory	DISCONTINUED				
Red Mt. Pass (B)	1/30	77	22.6	28.2	19.6
Silverton Sub-Sta.	DISCONTINUED				
Spud Mountain	1/30	70	19.0	19.2	15.9
<u>Dolores River</u>					
Groundhog	DELAYED				
Lizard Head	1/29	49	12.6	14.9	11.1
Lizard Head Pass	1/29	44	10.5	16.0	-
Lone Cone	1/28	45	11.4	16.4	11.6
Ophir Loop	1/30	57	14.2	15.5	9.4
Rico	1/29	33	6.4	8.8	6.2
Telluride	1/31	34	7.0	9.2	5.5
Trout Lake	1/31	46	10.5	14.4	9.4
<u>San Juan River</u>					
Chama Divide (B)	1/28	12	2.8	4.4	3.1
Chamita (B)	1/29	32	7.2	11.4	6.2
La Plata	DELAYED				
Mancos T-Down	DELAYED				
Upper San Juan	1/30	95	27.3	28.2	20.5
Vallecito	1/31	56	16.2	18.4	-
Wolf Cr. Pass (B)	1/30	86	24.3	23.8	18.5
Wolf Cr. Summit	1/30	88	25.1	20.8	19.2

(B)-No survey.

(B)-On adjacent drainage.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1961-80 Average
Animas River at Durango	550	120	458.2
Dolores River at Dolores	358	140	256.0
Florida River at Bonad	31	119	37.2
La Plata River at Hesperus	33	125	26.1
Los Pinos River at Bayfield (1)	260	119	219.0
Mancos River near Towaoc (2)	34	120	28.2
Inflow to Navajo Reservoir (1 & 3)	930	128	729.0
Piedra Creek at Arboles	270	120	225.4
San Juan River at Carracas	521	130	400.7
San Miguel River at Placerville	160	122	131.2

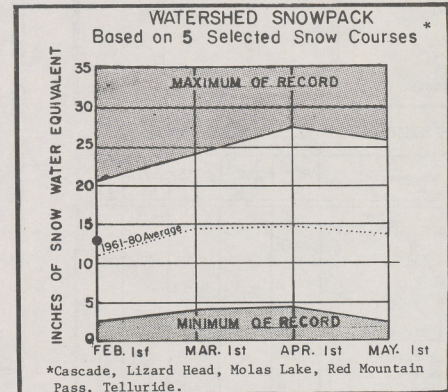
(1) Observed flow plus change in storage in Vallecito Reservoir. (2) March-July. (3) April-July.

WATER SUPPLY OUTLOOK

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Hermosa Creek	Average	Average
West Dolores River	Average	Average
Williams Creek	Average	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and/or RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	1961-80 AVERAGE
Groundhog	22	11	11	10
Jackson Gulch	10	3	6	4
Lemon	40	28	27	17
Narraguinep	19	15	17	8
Navajo	1696	1465	1460	791
Vallecito	126	49	71	51



WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

-GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

-COLORADO RIVER WATERSHED

Describe water supply conditions in DeBeque, Plateau Valley, Mesa, Bookcliff, Eagle County, Middle Park, South Side, and Mt. Sopris Soil Conservation Districts.

-SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts. Also describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

-YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

-ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Central Colorado, Turkey Creek, South Pueblo, Olney Boone, Cheyenne, Upper Huerfano, Spanish Peaks, Purgatoire River, Trinchera, Western Baca, Southeast Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, Prairie, Hi Plains, and Double El Soil Conservation Districts.

-RIO GRANDE WATERSHED

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, and Costilla, Soil Conservation Districts. Also describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrih, Jemez, Santa Fe-Pojoaque, Sandoval, Tijeras, Cuba and Edgewood Soil Conservation Districts.

-DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin, Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.